AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (currently amended) A method for auditing an optical network, comprising the steps of:

transmitting a query to a hardware device in said optical network;

receiving a response to said query subsequent to said transmitting;

analyzing said response to said query;

producing an audit report of said response and said analysis subsequent to said analyzing

wherein said audit report is based on network configuration information; and

transmitting a second query to said hardware device, said second query based on said response to said first query, in order to gather status information of said hardware device.

2. (canceled)

3. (original) The method described in Claim 1, wherein said report includes

recommendations associated with the management of said network.

4. (original) The method described in Claim 1, wherein at least a portion of said network is

implemented as a DWDM optical network.

5. (original) The method described in Claim 1, wherein said hardware device is a portion of

said network's infrastructure.

6. (original) The method described in Claim 1, wherein said hardware device is a DWDM

device.

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- 7. (previously presented) The method described in Claim 1, wherein said step of transmitting said transmitted queries is accomplished entirely within said optical network.
- 8. (previously presented) The method described in Claim 1, wherein said transmitted queries are generated by a dedicated network audit device.
- 9. (original) The method described in Claim 1, wherein said receiving of said received responses is accomplished entirely within said network.
- 10. (previously presented) The method described in Claim 1, wherein said first query requests information related to the part number and location in said optical network of said hardware device.
- 11. (previously presented) The method described in Claim 1, wherein said second query is determined by database reference to the hardware type of said hardware device.
- 12. (previously presented) The method described in Claim 1, wherein a further step of analyzing said responses to said queries is performed by automated intelligent decision-making.
- 13. (currently amended) A system for auditing an optical network, comprising: two or more computer systems;

an optical network coupled to said computer systems, said network communicatively coupled with said computer systems, said optical network comprising an optical medium and optical devices for providing a communication link between said computer systems; and,

a device coupled to said optical network that is capable of transmitting queries in said optical network to said optical devices,

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devices with the second query being based on said response to said first query and

wherein an audit report of said response based on network configuration information is

produced prior to the transmission of said second query.

14. (previously presented) A system as described in Claim 13 wherein at least a portion of

said optical network is implemented as a DWDM optical network.

15. (previously presented) A system as described in Claim 13 wherein said system further

comprises a device coupled to said optical network capable of receiving responses to said

transmitted queries.

16. (previously presented) A system as described in Claim 13 wherein at least one of said

computer systems comprises a data storage device, capable of storing instructions for

transmitting said queries in said optical network.

17. (previously presented) A system as described in Claim 13 wherein at least one of said

computer systems comprises a data storage device, capable of storing instructions for receiving

responses to said queries in said optical network.

18. (previously presented) A system as described in Claim 13 wherein at least one of said

computer systems is capable of automatically analyzing said responses to said queries.

19. (previously presented) A system as described in Claim 13 further comprising a device

capable of presenting said responses and said analysis in a user readable format.

20. (currently amended) A device for auditing an optical network, comprising:

a transmitting element coupled to said optical network;

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a receiving element coupled to said optical network; and,

a computing element, coupled to said optical network, wherein said device for

auditing an optical network is capable of formulating and transmitting queries to devices in said

optical network and receiving responses to said queries

wherein first and second queries are transmitted to at least one of said devices

and with the second query being based on said response to said first query

and wherein an audit report of said response that is based on network configuration information

is produced prior to the transmission of said second query.

21. (previously presented) A device as described in Claim 20 wherein said device is further

capable of automatically analyzing said responses to said queries.

22. (previously presented) A device as described in Claim 21 wherein said device is further

capable of presenting the results of said automatic analyzing in a user-readable format.

23. (previously presented) A device as described in Claim 20 wherein said device is further

capable of making recommendations for appropriate action in the management of said optical

network.

24. (previously presented) A device as described in Claim 20 wherein at least a portion of

said optical network is implemented as a DWDM optical network.

25. (currently amended) A computer useable medium having computer useable code

embodied therein causing a computer to perform operations comprising:

transmitting a query to a hardware device in said optical network;

receiving a response to said query;

analyzing said response to said query;

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producing a report of said response and said analysis; and

transmitting a second query to said hardware device, wherein said second query is

based on said response to said first query and wherein an audit report of said response that is

based on network configuration information is produced prior to the transmission of said second

query.

26. (previously presented) The computer useable medium in Claim 25, wherein said report

includes recommendations associated with the management of said optical network.

27. (previously presented) The computer useable medium described in Claim 25, wherein at

least a portion of said optical network is implemented as a DWDM optical network.

28. (previously presented) The computer useable medium described in Claim 25, wherein

said hardware device is a portion of said optical network's infrastructure.

29. (previously presented) The computer useable medium described in Claim 25, wherein

said hardware device is a DWDM device.

30. (previously presented) The computer useable medium described in Claim 25, wherein

said step of transmitting said query is accomplished entirely within said optical network.

31. (previously presented) The computer useable medium described in Claim 25, wherein

transmitted queries are generated by a dedicated network audit device.

32. (previously presented) The computer useable medium described in Claim 25, wherein

said receiving of said received responses is accomplished entirely within said optical network.

33. (previously presented) The computer useable medium described in Claim 25, wherein said first query requests information related to a part number and location in said optical network

of said hardware device.

34. (previously presented) The computer useable medium described in Claim 25, wherein

said second query is determined by database reference to the hardware type of said hardware

device.

(previously presented) The computer useable medium described in Claim 26, wherein a 35.

further step of analyzing said responses to said queries is performed by automated intelligent

decision-making.

36. (currently amended) A system for auditing an optical network, comprising:

transmitting means for transmitting a query to a hardware device in said optical network;

receiving means for receiving a response to said query:

analyzing means for analyzing said response to said query; and

report producing means for producing an audit report of said response prior to a

transmission of a second query wherein said audit report is based on network configuration

information, and

wherein said transmitting means transmits a said second query to said hardware device,

said second query being based on said response to said first query, in order to gather status

information of said hardware device.

(previously presented) The system described in Claim 36, wherein said report includes 37.

recommendations associated with the management of said network.

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38. (previously presented) The system described in Claim 36, wherein at least a portion of

said optical network is implemented as a DWDM optical network.

39. (previously presented) The system described in Claim 36, wherein said hardware device

is a portion of said optical network's infrastructure.

40. (previously presented) The system described in Claim 36, wherein said hardware device

is a DWDM device.

41. (previously presented) The system described in Claim 36, wherein said transmitting is

accomplished entirely within said optical network.

42. (previously presented) The method described in Claim 36, wherein said receiving is

accomplished entirely within said optical network.

43. (previously presented) The method described in Claim 36, wherein said first query

requests information related to a part number and location in said optical network of said

hardware device.

44. (previously presented) The method described in Claim 36, wherein said second query is

determined by reference to the hardware type of said hardware device.

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